

Nathan Alan Niemi

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Education

2002 Ph.D., Geology, California Institute of Technology (advisor: Brian Wernicke)
1996 M.S., Geology, California Institute of Technology
1994 A.B., Geological Sciences, magna cum laude, Cornell University

Professional Positions

2019 – pres. Professor, Department of Earth and Environmental Sciences and Faculty Associate, Program in the Environment, University of Michigan
2013 – 2019 Associate Professor, Department of Earth and Environmental Sciences and Faculty Associate, Program in the Environment, University of Michigan
2006 – 2013 Assistant Professor, Department of Earth and Environmental Sciences, University of Michigan
2004 – 2006 Member of the Professional Staff, California Institute of Technology
2003 – 2004 Assistant Research Scientist, University of California, Santa Barbara
2001 – 2003 Postdoctoral Fellow, Massachusetts Institute of Technology
1994 – 2001 Graduate Research and Teaching Assistant, California Institute of Technology
1994 NAGT/USGS Intern, U. S. Geological Survey

Visiting Positions

2013 – 2014 Sabbatical Fellow, Cooperative Institute for Research in the Environmental Sciences, University of Colorado, Boulder

Honors and Awards

2019 Fellow, American Association for the Advancement of Science
2014 Fellow, Geological Society of America
2013 Highlighted recipient, NSF Graduate Research Fellowship 60th Anniversary
1996 Koons Field Fellowship, California Institute of Technology
1995 Ian Campbell Field Geology Award, California Institute of Technology
1994 – 1997 National Science Foundation Graduate Research Fellowship
1994 NAGT/U. S. Geological Survey Summer Field Fellowship
1994 Chester Buchanan Outstanding Undergraduate in Geological Sciences, Cornell University
1994 Phi Beta Kappa, Cornell University

Editorial and Professional Service

2021 Michigan Association of State Universities, New Program Review for Michigan Tech
2021 – pres. Publications Committee, Member, Geological Society of America
2021 – pres. Florence Bascom Geologic Mapping Award Committee, Chair, Geological Society of America
20-- Tectonics Panel, National Science Foundation
2020 – pres. Jason Morgan Early Career Award Committee, Member, Tectonophys. Sec. Am. Geophys. Union
2020 – pres. Public Service Award Committee, Chair, Geological Society of America
2020 – pres. Ad Hoc Committee on Revising Nominations and Awards, Co-Chair, Geological Soc. Am.
2020 – pres. Nominations Committee, Chair, Geological Society of America
2020 – 2021 Executive Committee, Geological Society of America
2020 Ad Hoc Committee on Establishing Lifetime Memberships, Geological Society of America
2020 Nominations Committee, Chair-Elect, Geological Society of America

2020 GSA CARES Committee, Member, Geological Society of America
2020 Convener, SZ4D Landscapes and Seascapes session, Geological Society of America Ann. Meeting
2020 Outstanding Paper Award Committee, Chair, Structural Geology and Tectonics, Geol. Soc. Am.
2019 – pres. Subduction Zones in 4 Dimensions (SZ4D) Landscapes and Seascapes Working Group Member
2019 – 2021 Doris M Curtis Memorial Fund for Women in Science Selection Committee, Geol. Soc. Am.
2018 – pres. Councilor, Geological Society of America
2018 – 2021 Graduate Research Grants Committee, Member, Geological Society of America
2018 – 2019 Outstanding Paper Award Committee Member, Structural Geology and Tectonics, Geol. Soc. Am.
2017 Graduate Research Grants Committee, Alternate, Geological Society of America
2015 – 2018 Editorial Board, *Geological Magazine*
2015 – 2016 U. S. G. S. External Evaluation Committee, Southern California Earthquake Center
2015 Virtual Options Advisory Group, American Geophysical Union Fall Meeting
2014 Co-convener, *Field Education and Support by the UNAVCO GAGE Facility* workshop
2010 – 2016 Judge, Outstanding Student Poster Awards, AGU Fall Meeting, Tectonophysics Section
2014 – 2018 Editor, *Tectonics*
2012 – 2013 Co-convener, EarthScope National Meeting, 2013
2010 – 2013 Associate Editor, *Tectonics*
2013 Co-convener, *Evolution of the Qinghai-Tibet Plateau*, Joint GSA/GSC meeting in China
20-- Tectonics Panel, National Science Foundation
2012 Southern California Earthquake Center Community Fault Model Ver. 4 Working Group
2010 Co-convener, *Raising a Plateau From Earthquakes, Basins, and Fold-Thrust Belts*, AGU Fall Mtg
2010 Workshop, *Future directions for NSF-sponsored geoscience research in the Himalaya/Tibet*
20-- EarthScope Panel, National Science Foundation
2008 Workshop, *Testing the extensional detachment paradigm: Scientific drilling in the Sevier Desert*
2008 Co-convener, *Pardee Keynote Symposium*, Geological Society of America Annual Meeting
2007 *Teaching with GeoPads*, Science Education Resource Center workshop and web site development
20-- Tectonics Panel, National Science Foundation
2005 Invited Panelist, NSF Plate Boundary Observatory Siting Committee Review Panel
2004 – 2006 Southern California Earthquake Center Community Fault Model Ver. 3 Working Group
2004 – 2006 Southern California Earthquake Center Community Geologic Vertical Motion Map Working Grp
2004 – 2005 Member, Existing GPS Networks Working Group, Plate Boundary Observatory
2004 Co-convener, *The Cordillera, from the Canada Basin to Southern Sierra Nevada and Basin and Range*, GSA Annual Meeting
2004 Participant, SCEC Workshop, *Geographical Mapping, Visualization and Information Systems*
2000 Field trip co-leader, *Reconstruction of Basin and Range extension and westward motion of the Sierra Nevada block*, associated with the GSA Annual Meeting

Professional Consulting

2015 Scientific review, 1 chapter, *Discovering GIS and ArcGIS*, textbook
2010 Scientific review, 4 chapters, *Glencoe Physical Science with Earth Science*, textbook
2010 Science Illustrated magazine, reviewed article on how fast mountains grow.
2007 Co-leader Shell Geology and Geophysics Working Group Conference field trips, Wyoming.
2006 Cambridge Scientific Abstracts GeoRef Figures and Tables search, beta testing.
2006 Scientific review, 2 chapters, *Earth Science: Geology, the Environment and the Universe*, textbook

University Service

2021 Chair, LSA Nominating Committee
2020 – 2021 Chair, Launch Committee, Matthew Soellner, Chemistry
2012 Data management profile and interview, Pilot Study, University Library
2009 Participant, Capstone Brown Bag, *The Capstone Experience*
2009 Panelist, Preparing Future Faculty, Center for Learning and Teaching Seminar
2007 Reviewer, CRLT Players New Faculty Orientation Skit
2007 Panelist, Preparing Future Faculty, Center for Learning and Teaching Seminar
2006 – 2011 University Member Representative, University NAVSTAR Consortium

Departmental Service

2019 – pres.	Strategic planning committee
2018 – pres.	Faculty mentor to assistant professor Sierra Petersen
2018 – 2019	Faculty search committee, Earth and Environmental Sciences
2017 – 2018	Department Executive Committee
2015 – 2016	Chair, Faculty search committee, Earth and Environmental Sciences
2014	Chair, E. A. Hetland Assistant to Associate Tenure Review Panel
2013 – pres.	Director, Camp Davis Rocky Mountain Field Station
2012 – 2013	Faculty search committee, Earth and Environmental Sciences
2010 – 2013	Web design and redevelopment committee
2008 – 2013	Sigma Gamma Epsilon faculty advisor
2007 – 2013	Alumni newsletter production/editor
2008 – 2011	Alumni affairs committee
2007	Alumni affairs and Michigan Difference Campaign
2007 – 2008	Ad-hoc Committee on Revising the Undergraduate Curriculum
2006 – 2008	Undergraduate Curriculum Committee
2006	Awards and Nominations Committee

Invited Lectures & Talks

2019	Fall GSA Meeting, Phoenix
2017	Fall AGU Meeting, New Orleans University of Illinois
2016	University of Windsor
2015	Purdue University
2014	Field Education and Support by the UNAVCO GAGE Facility Workshop Northern Illinois University Colorado School of Mines UNAVCO Annual Science Workshop
2013	University of Colorado, Boulder Institute for Earth Environment, Chinese Academy of Sciences, Xi'an
2011	University of Washington University of Texas, Dallas
2010	Fall AGU Meeting, San Francisco
2009	University of New Mexico
2008	University of Kansas ICDP Workshop, <i>Scientific drilling in the Sevier Desert Basin</i>
2006	Fall AGU Meeting, San Francisco Bowling Green State University
2005	Fall AGU Meeting, San Francisco Boston College University of Michigan University of North Carolina, Chapel Hill University of California, Santa Cruz
2004	California Institute of Technology University of Arizona University of Calgary University of Maryland, College Park SCEC Workshop, <i>Geographical Mapping, Visualization and Information Systems</i>
2003	University of California, Santa Barbara
2001	Massachusetts Institute of Technology
2000	GSA Annual Meeting, Reno, NV

Education, Broader Impacts and Community Outreach

2021	Facilitator - <i>Graduate student onboarding courses: Exposing the hidden curriculum to help your</i>
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2019 *students succeed* – National Association of Geoscience Teachers Webinar
 Media interview, Ridgecrest, CA, earthquake, Detroit 7 TV, NPR, Las Vegas Review Journal
 2018 – 2019 Coach, Slauson Middle School Science Olympiad Team, Dynamic Planet event
 2018 Exemplary Teaching Activities Award from the National Association of Geoscience Teachers for two field-based teaching activities that use terrestrial laser scanning
 2017 Leader, International student field trip on geology of New Zealand (22 students, three weeks)
 2014 – 2017 Development of a planetarium-based movie on plate tectonics for elementary school students
 2015 Summer School for 32 grad. students, *Mountain Ranges and High Plateaus*, Jackson, WY
 2011 Summer School for 30 grad. students, *Mountain Ranges and High Plateaus*, Jackson, WY
 2010 Co-leader, Spring geological field trip to the southwestern United States (28 students, two weeks)
 2007 Co-leader, Spring geological field trip to the southwestern United States (32 students, two weeks)
 2005 *Big Ideas*, interview and contributions to a PBS documentary on Yucca Mountain
 2005 Ask-A-Scientist Night, Hillview Middle School, Whittier, CA
 2003 Presentations to elementary school groups on earthquake preparedness at UC Santa Barbara

Courses Taught

Year	Term	Course	Format	Title	Credits	Students	Q1	Q2
2021	Su	Earth 441	Virtual	Field Project	1	33		
2021	Su	Earth 440	Field	Field Geology Methods	5	20		
2021	W	Earth 495	Virtual	Methods in Research/Nat. Sci	1	16 (21*)	4.9	4.9
2021	W	Earth 408	Virtual	Intro. GIS Earth Sciences	3	40	4.8	5.0
2020	Su	Earth 496	Virtual	Field Geology Methods	5	40	2.2	4.6
2020	W	Earth 408	Lecture	Intro. GIS Earth Sciences	3	37	4.9	5.0
2020	W	Earth 495	Seminar	Methods in Research/Nat. Sci.	1	18 (25*)	4.7	4.7
2020	W	Earth 525	Lecture	Tectonophysics	2	6		
2019	Su	Earth 440	Field	Field Geology	5	22	3.2	4.8
2018	F	Earth 408	Lecture	Intro. GIS Earth Sciences	3	29	4.7	4.8
2018	Su	Earth 116	Field	Intro Geology Rocky Mountains	2	17	3.0	4.4
2018	Su	Earth 440	Field	Field Geology	4	20	4.4	4.8
2018	W	Earth 408	Lecture	Intro. GIS Earth Sciences	3	40	4.56	4.88
2018	W	Earth 495	Seminar	Methods in Research/Nat. Sci.	1	7 (10*)	4.75	5.00
2018	W	Earth 525	Lecture	Tectonophysics	2	4	4.00	5.00
2017	Su	Earth 440	Field	Field Geology	5	15	4.22	4.78
2017	W	Earth 408	Lecture	Intro. GIS Earth Sciences	3	31	4.25	4.83
2017	W	Earth 495	Seminar	Methods in Research/Nat. Sci.	1	18 (22*)	-	-
2017	W	Earth 434	Seminar	Earth, Energy Env in New Zealand	1	17 (22†)	-	-
2017	W	Earth 534	Seminar	GTS Graduate Seminar (organizer)	1	4 (20*)	-	-
2016	Su	Earth 440	Field	Field Geology	5	16	5.00	5.00
2016	W	Earth 495	Seminar	Methods in Research/Nat. Sci.	1	13	4.00	5.00
2016	W	Earth 408	Lecture	Intro. GIS Earth Sciences	3	24	4.88	4.67
2015	Su	Earth 440	Field	Field Geology	5	20	4.17	4.67
2015	W	Earth 495	Seminar	Methods in Research/Nat. Sci.	1	26 (31*)	4.11	4.85
2015	W	Earth 408	Lecture	Intro. GIS Earth Sciences	3	26	4.75	4.90
2014	Su	Earth 441	Field	Field Project	1	3	-	-
2014	Su	Earth440	Field	Field Geology	3	22	3.75	4.94
2013	Su	Earth 441	Field	Field Project	1	6	-	-
2013	Su	Earth440	Field	Field Geology	3	21	4.67	4.67
2013	W	Earth351	Lecture	Structural Geology	4	28	4.64	4.75
2012	F	Earth525	Lecture	Tectonophysics	1	9	4.60	4.75
2012	F	Earth495	Lecture	Methods in Research/Nat. Sci.	1	28 (39*)	4.00	4.77
2012	Su	Earth441	Field	Field Project	1	6	4.50	5.00
2012	Su	Earth440	Field	Field Geology	2.5	20	4.54	4.92
2011	F	GS531	Lecture	Methods in Research/Nat. Sci.	1	31 (55*)	3.94	4.89
2011	F	GS351/451	Lecture	Structural Geology/Earth Structure	4/3	27/4	3.81	4.00
2011	Su	GS441	Field	Field Project	1	7	4.00	5.00
2011	Su	GS440	Field	Field Geology	4	18	4.17	4.83

2011	W	GS305	Lecture	Earth's Surface and Sediments	4	38	3.94	4.42
2010	Su	GS440	Field	Field Geology	4.5	12	4.81	4.50
2010	W	GS351/451	Lecture	Structural Geology/Earth Structure	4/3	14/3	4.38	4.71
2010	W	GS490	Honors	Geology Honors	2	1	-	-
2010	W	GS436	Seminar	Field Studies - Stratigraphy [†]	1	19 (28*)	-	-
2009	F	GS490	Honors	Geology Honors	2	1	-	-
2009	Su	GS440	Field	Field Geology	5	21	4.79	4.59
2009	W	GS107 002	Lecture	Volcanoes & Earthquakes	1	134	4.13	4.48
2009	W	GS107 001	Lecture	Volcanoes & Earthquakes	1	107	4.14	4.69
2009	W	GS351/451	Lecture	Structural Geology	4/3	20/3	4.25	4.75
2008	F	GS525	Lecture	Tectonophysics	1	5	4.33	4.88
2008	Su	GS440	Field	Field Geology	6	11	4.86	4.94
2008	W	GS351/451	Lecture	Structural Geology/Earth Structure	4/3	23/3	4.22	4.36
2008	W	GS490	Honors	Geology Honors	2	2	-	-
2007	F	GS490	Honors	Geology Honors	2	1	-	-
2007	Su	GS440	Field	Field Geology	4	18	4.68	4.75
2007	W	GS351/451	Lecture	Structural Geology/Earth Structure	4/3	19/1	4.17	4.50
2007	W	GS490	Honors	Geology Honors	2	1	-	-
2007	W	GS534	Seminar	Geophysics, Tectonics, Structure	1	4(10*)	-	-
2007	W	GS536	Seminar	Stratigraphy, Sedimentol., Paleo.	1	(32*)	-	-
2006	Su	GS440	Field	Field Geology	2	12	4.00	4.08
2006	W	GS351/451	Lecture	Structural Geology/Earth Structure	4/3	12/1	3.90	4.17

*Number including postdoctoral scholars, graduate and/or undergraduate students who attended but did/could not enroll.

[†]Total participation in field trip (number before parentheses recognizes number enrolled in trip course)

[‡]The course evaluation process and questions were changed between W2018 and Su2018.

Research Grants

Active Grants

- 2021 – 2024 3 years. \$424,751. National Science Foundation: Collaborative Research: From subduction to suture: testing collisional stage and lithospheric strength as controls on orogenic structure in the Caucasus. P.I. – N. A. Niemi.
- 2016 – 2018 2 years. \$77,704. College of Literature, Sciences, and the Arts Associate Professor Support Fund: Development of the monazite (U-Th-Sm)/He thermochronometer for routine application to geological studies. P.I. – N. A. Niemi. (ongoing under no-cost extension)
- 2015 – 2018 3 years. \$319,354. National Science Foundation. Collaborative Research: A structural, thermochronologic, and provenance investigation of a hypothesized transition from subduction to slab breakoff in the Greater Caucasus. P.I. – N. A. Niemi. (ongoing under no-cost extension)

Past Grants

- 2019 – 2020 1 year. \$27,000. U. S. Geological Survey EDMAP Program: Geologic Map of the Titus Canyon Formation, Death Valley National Park. P.I. – N. A. Niemi.
- 2012 – 2018 5 years. \$509,997. National Science Foundation. CAREER: Paleotopography using clumped isotopes in the Basin and Range: Refining the three-dimensional evolution of a continental extensional province. P.I. – N. A. Niemi.
- 2015 – 2016 1 year. \$5325. Faculty I ITC Grant. Collecting and visualizing three-dimensional data using Structure from Motion technology. P. I. – N. A. Niemi.
- 2015 – 2016 1 year. \$4800. Faculty I ITC Grant. Camp Davis Computing Resources. P.I. – N. A. Niemi.
- 2012 – 2017 3 years. \$685,383. National Science Foundation. Collaborative Research: Growth of the Tibetan Plateau and Eastern Asia Climate: Clues to Understanding the Hydrological Cycle. P.I.s – M. K. Clark, N. A. Niemi.
- 2009 – 2012 3 years. \$322,553. National Science Foundation. Collaborative Research: Growth of the Tibetan Plateau and Eastern Asia Climate: Clues to Understanding the Hydrological Cycle. P.I.s – M. K. Clark, N. A. Niemi.

2008 – 2011	3 years. \$268,000. National Science Foundation. Collaborative Research: Magnitude and timing of shortening in the Greater Caucasus: Locus of Late Cenozoic Arabia-Eurasia convergence? P.I. – N. A. Niemi.
2006 – 2007	2 years. \$75,622. Civilian Research and Development Fund. Tectonic deformation in Azerbaijan; timing of the Arabia-Eurasia collision and development of the Caspian Sea. P.I.s – N. A. Niemi, A. A. Bayramov, I. R. Murtuzayev.
2006	1 year. \$40,000. Southern California Earthquake Center. Development of the SCEC Community Vertical Motion Map. P.I.s – M. Oskin, T. Rockwell, N. Niemi.
2005	1 year. \$19,035. Southern California Earthquake Center. Development and integration of the SCEC Community Vertical Motion Map. P.I.s – M. Oskin, T. Rockwell, and N. Niemi
2004	1 year. \$16,137. Southern California Earthquake Center. Seismic hazard assessment of urban fault-related uplifts from quantitative geomorphology. P.I.s – N. Niemi and M. Oskin.
2004	1 year. \$10,000. Southern California Earthquake Center. Implementation of the SCEC Community Vertical Motion Map. P.I.s – M. Oskin, T. Rockwell, and N. Niemi
2003	1 year + no-cost extension. \$126,490. National Science Foundation. Paleotopography of an evolving extensional orogen, the central Basin and Range, western United States. P.I. – N. Niemi.
2003 – 2006	3 years + no-cost extension. \$235,252. National Science Foundation. Uplift and exhumation along the San Andreas fault zone; an empirical investigation of transpression. P.I.s – J. Spotila, R. Brady, and M. House. Co-I. N. Niemi.

Graduate Students Advised or Co-advised

Kevin Ortiz 2016 – pres.	Paleoelevation of the Axhandle Basin, San Pitch Mountains, Utah, MS student
Nikolas Midttun 2016 – pres.	Eocene extension in the northern Basin and Range, PhD candidate
Alexander Tye Ph. D. 2019	Cenozoic tectonic evolution of the Greater Caucasus Mountains Assistant Professor, Dixie State University, Utah
Alyssa Abbey Ph.D. 2018	<i>Assessing Rio Grande rift development and exhumation in the southern Rocky Mountains using techniques in low-temperature thermochronometry</i> Assistant Professor, California State University, Long Beach
Petr Yakovlev Ph.D. 2015	<i>Evolution of the Indo-Asian orogen: Insights from the deformation of northern Tibet, mass balance calculations, and volcanic geochemistry.</i> Co-advised with Marin Clark. Geoscience and Data Specialist, U. S. Government
Lydia Staisch Ph.D. 2014	<i>The tectonic evolution of the Hoh Xil Basin and Kunlun Shan: implications for the uplift history of the northern Tibetan Plateau.</i> Co-advised with Marin Clark. Research Geologist, GMEG Science Center, U. S. Geological Survey
Alex Lechler Ph.D. 2011	<i>The Cenozoic paleoelevation and paleogeographic history of the southwestern U.S. Cordillera: a combined sedimentologic and isotopic approach.</i> Associate Professor, Pacific Lutheran University
Boris Avdeev Ph.D. 2011	<i>Tectonics of the Greater Caucasus and the Arabia-Eurasia orogen.</i> Deceased.

Postdoctoral Scholars Advised or Co-advised

Kendra Murray	2016 – 2018	<i>Detrital apatite thermochronology and monazite (U-Th-Sm)/He dating</i> Assistant Professor, Idaho State University
Eric Portenga	2016–2017	<i>Landslide modulated erosion rates in the Santa Monica Mountains, CA</i> Assistant Professor, Eastern Michigan University
Tim Stahl	2015–2017	<i>Paleoseismology of the Sevier Desert (NSF Postdoctoral Fellow)</i> Senior Lecturer, University of Canterbury, New Zealand
Brice Lacroix	2013– 2015	<i>Clumped isotopes and paleoaltimetry of the western United States</i> Assistant Professor, Kansas State University

Dissertation Committee Member

University of Michigan

Current	Eric Szymanski (PhD. expected 2023; advisor Eric Hetland)
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Past

Fabian Hardy (Ph.D. expected 2022; advisor Catherine Badgley)
 Kirk Townsend (PhD. expected 2021; advisor Marin Clark)
 Sarah Brehm (PhD. 2021; advisor Rebecca Lange)
 Phoebe Aron (Ph.D. 2021, advisor Chris Poulsen)
 Dora Shen (Ph.D. 2020: advisor Chris Poulsen)
 Trever Hines (Ph.D. 2017, advisor Eric Hetland)
 Richard Fiorella (Ph.D. 2016: advisor Chris Poulsen)
 Tara Smiley (Ph.D. 2016, advisor: Catherine Badgely)
 Ian Winkelstern (Ph.D. 2016, advisor Kyger Lohmann)
 Ran Feng (Ph.D. 2015, advisor: Chris Poulsen)
 Will Defliese (Ph.D. 2014, advisor: Kyger Lohmann)
 Tim O'Brien (M.S. 2012, advisor: Ben van der Pluijm)
 Mathew Domeier (Ph.D. 2011, advisor: Rob Van der Voo)
 Alison Duvall (Ph.D. 2011, advisor: Marin Clark)
 Nadja Insel (Ph.D. 2010, advisors: Todd Ehlers and Christopher Poulsen)
 Sarah Rilling (Ph.D. 2009, advisor: Samuel Mukasa)
 James Hnat (Ph.D. 2009, advisors: Ben van der Pluijm and Rob Van der Voo)

External Committee Member

Chrissy Ward Kansas State University (M.S. 2020, advisor Brice Lacroix)
 Dylan Vasey University of California, Davis (M.S. 2018 advisor, Eric Cowgill)
 Chad Trexler University of California, Davis (Ph.D. 2018 advisor, Eric Cowgill)
 Adam Forte University of California, Davis (Ph.D. 2012 advisor, Eric Cowgill)

Undergraduate Students Supervised

UROP Students

Joey Pinto 2019-2020 *Building DEMs from historical aerial photos*

Senior Thesis Research/Research Assistants

Christian Banner 2014 - 2015 *Exhumation of the central Caucasus*
 Megan Mueller 2013 *Erosion rates and seismicity in southern California*
 Nattavadee Srisutthiyakorn 2008 – 2010 *Slip rate on the low-angle Sevier Desert*
Detachment constrained by geodesy and pluvial shoreline deformation
 Daniel LaLonde 2007 – 2008 *Effects of time varying landslide rates on cosmogenic nuclide erosion rates using a numerical simulation.*

Undergraduate Research Assistants

Bianca Gallina 2019 – 2020
 Alex London 2017 – 2018
 Megan Hendrick 2016 – 2017
 Christian Banner 2014 – 2015
 Jesse Fenno 2014 – 2015
 Andrew Biebuyck 2011 – 2013
 David Azzolini 2008 – 2009
 Daniel Perez 2007

Visiting Scholars Hosted

Leyi Li, Graduate student, Institute of Earth Environment, C.A.S., Xi'an, 2017 – 2018.
 Gulam Babayev, (Fulbright Fellow) Professor of Seismology, Geol. Inst. Azerbaijan, 2017 – 2018.
 Chang Hong, Professor, Institute of Earth Environment, C.A.S., Xi'an, 2014 – 2015.
 Eric Cowgill, Associate Professor, University of California, Davis, February 2011.

Publications

†Graduate student author ‡Postdoctoral scholar author §Invited

65. †Townsend, K., Clark, M., **Niemi, N.**, in review, Initiation, localization, and propagation of reverse faulting at a compressional bend in a continental plate boundary transform system, *Tectonics*.
64. Li, L., Farnsworth, A., **Niemi, N.**, Clift, P., Qiang, X., Jin, C., Sun., J., Guan, C., Zhang, P., Peng, L., Miao, Y., An, Z., in review, Uplift of the Tuotuohe Basin since the late Eocene and its paleoenvironmental implications, *National Science Review*.
63. Pradel, D., Lobbetael, A., Brooks, C. N., Dobson, R., Marion, N., Oommen, T., Esser, A. J., Athanasopoulos-Zekkos, A., Zekkos, D., Clark, M., Townsend, K., **Niemi, N.**, Midttun, N., Hille, M., in press, The May 19th 2020 failure of Edenville Dam near Midland, Michigan, *Proceedings of the Geo-Extreme 2021 Conference, American Society of Civil Engineers*.
62. Cooke, M., Breitbart, M., Cooperdock, E. H. G., Levin, N., **Niemi, N.**, Viskupic, K., in press, Exposing the hidden curriculum of graduate school, *Nature Geoscience*.
61. †Trexler, C. C., Cowgill, E. C., **Niemi, N. A.**, and Godoladze, T., in review, Tectonostratigraphy and major structures of the Georgian Greater Caucasus: Implications for structural architecture, along-strike continuity, and orogen evolution, *Geosphere*.
60. †Midttun, N., and **Niemi, N. A.**, in press, Pre-Basin and Range extensional basin development recorded by detrital zircon U-Pb ages in the Eocene-Oligocene Titus Canyon Formation, Death Valley, CA, *Geosphere*.
59. Pradel, D., Lobbetael, A., Athanasopoulos-Zekkos, A., Brooks, C., Champagne, C., Clark, M., Dobson, R., Edmonds, D., Esser, A., Gong, W., Hille, M., Manousakis, J., Marion, N., Martin, H., Midttun, N., **Niemi, N.**, Oommen, T., Townsend, K., Yanites, B., Zekkos, D., in press, Edenville and Sanford Dam Failures: Field Reconnaissance Report, *American Society of Civil Engineers Geotechnical Special Publications*, v. 327.
58. ‡Portenga, E. W., Clark, M. K., **Niemi, N. A.**, Gallen, S. F., and Caffee, M. W., in revision, Temporal variability of fault slip rates within a complex plate boundary system, *Tectonics*.
57. ‡Stahl, T., **Niemi, N. A.**, Delano, J., Wolfe, F., Bunds, M., and Howell, A., 2021, Application of legacy aerial photographs to characterize diffuse deformation in the Drum Mountains fault zone, Basin and Range province, Utah, USA, *Frontiers in Earth Science* v. 8, 600729, doi:10.3389/feart.2020.600729.
56. Hoareau, G., Crognier, N., Lacroix, B., Auborg, C., Roberts, N., **Niemi, N.**, Branellec, M., Beaudoin, N., Ruiz, I. S., 2021, Conditions of vein formation during the last pulse of shortening in the South Pyrenean Frontal Thrust (Spain) from calcite U-Pb dating and clumped isotopes, *Earth and Planetary Science Letters*, v. 553, 116636, doi:10.1016/j.epsl.2020.116636.
55. †Tye, A., **Niemi, N. A.**, Safarov, R., Kadirov, F., Babayev, G., 2020, Sedimentary response to collisional orogeny recorded in detrital zircon provenance of Greater Caucasus foreland basin sediments, *Basin Research*, v. 33, p. doi:10.1111/bre.12499.
54. †Staisch, L. M., **Niemi, N. A.**, Clark, M. K. and Chang, H., 2020, The timing of crustal shortening and left-lateral shear in the central East Kunlun Shan: implications for the uplift history of the Tibetan Plateau, *Tectonics*, v. 39, e2020TC006065, doi:10.1029/2020TC006065.
53. Lacroix, B., Hughes, J., Lahfid, A., Spangenberg, J.E., Putlitz, B., Ward, C., **Niemi, N.** and Kempton, P.D., 2020. Structure and origin of the gold mineralization in the Nacimiento Block: The Los Burros deposits (Central California), *Ore Geology Reviews*, v. 125, 103668, doi:10.1016/j.oregeorev.2020.103668.
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Reviewing and Refereeing Activity

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Proposal Reviews National Science Foundation: EarthScope, Frontiers in Earth System Dynamics, Geomorphology and Land Use Dynamics, Instrumentation and Facilities, NSF Postdoctoral Fellowship, Tectonics; Shota Rustaveli National Science Foundation, Georgia; Civilian Research and Development Fund; American Chemical Society Petroleum Research Fund; Austrian National Science Foundation; German National Science Foundation; Israel National Science Foundation; National Science Foundation of China